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ALIGNMENTS

P01633 P18136 P01675

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P06314 P01634 P01648 P18135

KV5K_MOUSE KV4C_HUMAN KV5B_MOUSE

KV50_MOUSE KV31_HUMAN KV51_MOUSE KV5M_MOUSE KV5N_MOUSE KV5A_MOUSE KV3M_HUMAN KV6A_MOUSE

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P01680;
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GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.
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                                                                                                                                                                                                                                                                                                 100059 seqs, 36664827 residues
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                                                             OM protein - protein search, using sw model
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Maximum Match 100%
Listing first 45 summaries
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KV1V_HUMAN
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Maximum DB seq length: 2000000000
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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its modified and this statement is not removed. Usage by non-profit institutions as long as its content is in no way entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                        SEQUENCE FROM N.A.
MEDLINE=82115300; PubMed=6799208;
Kwan S.-P., Max E.E., Seidman J.G., Leder P., Scharff M.D.;
"Two kappa immunoglobulin genes are expressed in the myeloma S107.";
Cell 26:57-66(1981).
-I MISCELLANBOUS: THIS PROTEIN, IN WHICH THERE IS A DELETION OF TWO AMINO ACIDS AT THE VJ RECOMBINATION SITE (AFTER POSITION 118), IS SYNTHESIZED BUT NOT SECRETED IN CELLS THAT EXPRESS AND SECRETE THE NORMAL KAPPA CHAIN S107.
                                                                                   Wus musculus (Mouse).

Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IG KAPPA CHAIN V-IV REGION S107B.
FRAMEWORK 1.
COMPLEMENTARITY-DETERMINING 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPLEMENTARITY-DETERMINING 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 129;
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COMPLEMENTARITY-DETERMINING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13833 MW; E4BB73072DCF6BE4 CRC64;
                     21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
IG KAPPA CHAIN V-IV REGION S107B PRECURSOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 446; DB 1;
Pred. No. 3.5e-36;
      129 AA.
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BY SIMILARITY.
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    PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           InterPro; ITPR03006; Ig_MHC. InterPro; IPR003506; Ig_V. Pfam; PF00047; Ig; 1. SWART; SW00406; IGv. 1. Immunoglobulin V region; Signal.
                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL; JO0577; AAA38780.1;
EMBL; V00780; CAA24157.1;
PIR; A01943; KVMS7B.
HSSP; P01679; ZFBJ.
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66.9%;
STANDARD;
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129 AA;
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Best Local Similarity
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SEQUENCE
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KV6G_MOUSE

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Palm W., Hilschmann N.;
"The primary structure of a crystalline monoclonal immunoglobulin when primary structure of a crystalline monoclonal selicities isolation kappa-type L-chain, subgroup I (Bence-Jones protein Rei.); isolation and characterization of the tryptic peptides; the complete amino acid sequence of the protein; a contribution to the elucidation of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23 DIQMIQSPSSISASVGDRVTITCSATSSI-TYMSWYQQKPGKAPKLLIYDTSNLASGVPS 81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                  MEDLINE=86174817; PubMed=3083240; MEDLINE=86174817; PubMed=3083240; Medlinet F.E., O'Connor T.P., Benson M.D.; pullet F.E., akappa I primary (AL) amyloid protein (BAN)."; Polymorphism in a kappa I primary (AL) amyloid protein (BAN)."; Mol. Immunol. 23:73-78(1986).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         67.4%; Score 441.5; DB 1; Length 108; nilarity 78.5%; Pred. No. 7.7e-36; Conservative 11; Mismatches 11; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                   COMPLEMENTARITY - DETERMINING 1.
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COMPLEMENTARITY-DETERMINING 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           82 RESGSGSGTDYTLIISSLQPEDFATYYCQQWSSYPLIFGGGTKVEIK 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 RESGIGSGIDFTFIISSLQPEDIATYYCQQFDNLPLIFGGGIKVDFK 107
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  108 AA.
                                                                                                                     13-AUG-1987 (Rel. 05, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
IG KAPPA CHAIN V-I REGION BAN.
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                                                                              108 AA
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                                                                                PRT;
                                                                                                                                                                                                                                                                                                                                                                   pfam. PF00047; ig; 1.
SMART; SM00406; IGV; 1.
Immunoglobulin V region; Amyloid.
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                                                                                                             13-AUG-1987 (Rel. 05, Created)
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InterPro; IPR003006; Ig_MHC.
InterPro; IPR003596; Ig_V.
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                                                                                   STANDARD;
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                                                                                                                                                                                                                                                                                                                PIR; A01878; K1HUBN.
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                                                                                                                                                                                                               NCBI_TaxID=9606;
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                                                                                   KV1V_HUMAN
P04430;
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                                                                       KV1V_HUMAN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23 DIOMIQSPSSLSASVGDRVTITCSATSSIT-YMSWYQQKPGKAPKLLIYDTSNLASGVPS 81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        59 OKPGKAPKLLIYDTSNIASGVPSRFSGSGSGTDYTLTISSLOPEDFATYYCQOWSSYPLT 118
                                                                  1 MDFQVQIFSFLLISASVILSRGDIQMTQSPSSLSASVGDRVTITCSATSSI--TYMSWYQ 58
                          4; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FUNCTIONS TO 39 AND 41. Hess M., Langer B., Ponstingl H., Hilschmann N., Barnikol H.O., Watanabe S.; Steinmetz-Kayne M., Suter L., Watanabe S.; (In) Franck F., Shugar D. (eds.); Gamma globulins: structure and function, pp.57-74, Academic Press, New York (1969).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Chemical structure of 2 kappa-type Bence Jones proteins (Roy and
                                                                                                                                                                                                                                                                                                                                                             Homo sapiens (Human).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mamalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -1- MISCELLANEOUS: THE C REGION OF THIS CHAIN HAS THE INV (1,2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 67.9%; Score 444.5; DB 1; Length 108; 78.5%; Pred. No. 4e-36; tive 11; Mismatches 11; Indels 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPLEMENTARITY-DETERMINING 2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11782 MW; F5ACEDE5A313DF3A CRC64;
                        21; Mismatches 18; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hoppe-Seyler's Z. Physiol. Chem. 348:1077-1080(1967).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -1- MISCELLANEOUS: THIS IS A BENCE-JONES PROTEIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pfan; PF00047; ig; 1.

PMART; SW00406; IGV 1.

Immunoglobulin V region; Bence-Jones protein.
                                                                                                                                                                                                                                                                                                       21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
1G KAPPA CHAIN V-I REGION ROY.
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PIR, A01084; JWTL.
Interpro; IPR003006; Ig_MHC.
Interpro; IPR003596; Ig_V.
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Matches 84; Conservative
                                   Matches 87; Conservative
                                                                                                                                                                                                                                                                                 STANDARD;
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57
89
98
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108
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SEQUENCE
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**RAY CRYSTALLOGRAPHY (2.0 ANGSTROMS).
MEDLINE-76039968; PUDMed-1182131;
Epp O., Latturan E.E., Schiffer M., Huber R., Palm W.;
The molecular structure of a dimer composed of the variable of the Bence-Jones protein REI refined at 2.0-A resolution.";
Blochemistry 14:4943-4952(1975).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23 DIOMTQSPSSLSASVGDRVTITCSATSS-ITYMSWYQQRPGKAPKLLIYDTSNLASGVPS 81
 three-dimensional structure of antibodies, in particular their
                                                                                                         PIR, A01873; KIHURE.
PIR, A01873; KIHURE.
PUB; A01873; KIHURE.
PUB; A1.7 FEB-84
InterPro; IPR003006; Ig_MHC.
InterPro; IPR003506; Ig_V.
Fram: PP00047; Ig; 1.
Fram: PP00047; Ig; 1.
Immunoglobulin V region; Bence-Jones protein; 3D-structure.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                66.6%; Score 436.5; DB 1; Length 108; 79.2%; Pred. No. 2.3e.35; tive 8; Mismatches 13; Indels 1;
                                                                                                                                                                                                    COMPLEMENTARITY-DETERMINING 1.
                                                                                                                                                                                                                       COMPLEMENTARITY-DETERMINING 2.
                                                                                                                                                                                                                                FRAMEWORK 3.
COMPLEMENTARITY-DETERMINING 3.
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108
11902 MW; 9E8143E1188BCE2A CRC64;
                  Hoppe-Seyler's Z. Physiol. Chem. 356:167-191(1975).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
IG KAPPA CHAIN V-I REGION AU.
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108
108 AA;
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DISULFID
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P01594;
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BLOPHYS. STILL.

I. MISCELLANBOUS: THE STRUCTURE OF THE V REGION WAS DETERMINED BY MOLECULAN ERPLACEMENT METHODS USING THE KNOWN STRUCTURE OF THE V REGION OF THE KAPPA CHAIN REI.

I. MISCELLANBOUS: THE C REGION OF THIS CHAIN HAS THE INV (3) MARKER.

I. MISCELLANBOUS: THE C REGION OF THIS CHAIN HAS THE INV (3) MARKER.

PIR; A01862; KIHUAU.

HSP; P01607; IREI.
                                                             MEDLINE-72189444; PubMed-5028201;
MEDLINE-72189444; PubMed-5028201;
Schiechl H., Hilschmann N.;
Rule of antibody structure. The primary structure of a monoclonal immunoglobulin L-chain of the kappa-type, subgroup I (Bence-Jones
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23 DIQMTQSPSSLSASVGDRVTITCSATSSIT-YMSWYQQRPGKAPKLLIYDTSNLASGVPS 81
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE-7702243; PubMed-1234024;
Fehlhammer H., Schiffer M., Epp O., Colman P.M., Lattman E.E.,
Schwager P., Steigemann W., Schramm H.J.;
The structure determination of the variable portion of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE-55086080; PubMed-799391;
Huang D. B., Chang C.-H., Ainsworth C., Bruenger A.T., Eulitz M., Solomon A., Stevens F.J., Schiffer M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            66.5%; Score 435.5; DB 1; Length 108; 79.4%; Pred. No. 2.9e-35;
                                                                                                                                                                                                                                                                                                                                                                                                                               FRAMEWORK 1.
COMPLEMENTARITY-DETERMINING 1.
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COMPLEMENTARITY-DETERMINING 3.
FRAMEWORK 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               82 RFSGSGSGTDYTLTISSLQPEDFATYYCQQWSSYPLTFGGGTKVEIK 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 RFSGGGSGAHFTFTISSLQPEDIATYCQQYDYLPWTFGGGTKVEIK 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11939 MW; E8011187EE6F6FB9 CRC64;
                                                                                                                                   Hoppe-Seyler's Z. Physiol. Chem. 353:345-370(1972).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pred. No. 2.9e-35;
6; Mismatches 15
                                                                                                                                                                                                                                                                                                                                                                             01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
IG KAPPA CHAIN V-I REGION WAT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BY SIMILARITY.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRT;
                                                                                                                                                                                                                                                                                                                                                    InterPro; IPR003006; Ig_MHC.
InterPro; IPR003596; Ig_V.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity 79.49 tes 85; Conservative
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108 AA;
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                                                        SEQUENCE.
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P80362;
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NON_TER
SEQUENCE
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23 DIQMTQSPSSLSASVGDRVTITCSAT-SSITYMSWYQQRPGKAPKLLIYDTSNLASGVPS 81
Immunoglobulin
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-1- MISCELLANBOUS: THE C REGION OF THIS CHAIN HAS THE INV (3) MARKER.

-1- MISCELLANBOUS: THIS IS A BENCE-JONES PROFEIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              watanabe S., Hilschmann N.; arganabe type immunoglobulin L-
man primary structure of a monoclonal kappa-type immunoglobulin L-
man primary structure of a monoclonal kappa-type immunoglobulin L-
chain of subgroup I (Bence-Jones Protein Hau): subdivision within
                                                                                                                                                                                                                                                                                                                                                                                               23 DIOMIOSPSSLSASVGDRVIITCSAISSII-IMSWYQQKPGKAPKLLIYDISNLASGVPS 81
                                                                                                                                                                                                                                                                                                                                                                                                           1; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
     "Comparison of crystal structures of two homologous proteins: structural origin of altered domain interactions in immunoglobulin light-chain dimers.";
                                                                      Match 66.3%; Score 434.5; DB 1; Length 108; Local Similarity 77.6%; Pred. No. 3.6e-35; les 83; Conservative 12; Mismatches 11; Indels 1.
                                                                                                                                                                                                                                              COMPLEMENTARITY - DETERMINING 2.
                                                                                                                                                                                      Pfan; PF00047; 19; 1.
SMART; SM00406; IGV; 1.
Immunoglobulin V region; Bence-Jones protein; 3D-structure.
                                                                                                                                                                                                                          COMPLEMENTARITY-DETERMINING 1.
                                                                                                                                                                                                                                                                   COMPLEMENTARITY-DETERMINING 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                         108 108
108 AA; 11737 MW; D9D941B3F0FAE697 CRC64;
                                                                                                                                                                                                                                                                                         BY SIMILARITY.
TN -> SD (IN REF. 2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
IG KAPPA CHAIN V-I REGION HAU.
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                                             Blochemistry 33:14848-14857(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PIR; A01868; K1HUHU.
HSSP; P80362; 1WTL.
InterPro; IPR003006; Ig_MHC.
InterPro; IPR003596; Ig_V.
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SMART; SM00406; IGV; 1.
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Best Local 5
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Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EULITZ M., Linke R.P.; "Periable part of an amyloidogenic "Primary structure of the variable part of an amyloidogenic Bence-Jones Protein (Mev.). An unusual insertion in the third Bence-Jones Protein (Mev.). An unusual insertion in 19th chain."; hypervariable region of a human kappa-immunoglobulin light chain."; hypervariable region of a human kappa-immunoglobulin light chain."; hypervariable region of a human Kappa-immunoglobulin light chain."; hypervariable region of a hypervariable region of a human Kappa-immunoglobulin light chain."; hypervariable region of a human Kappa-immunoglobulin light chain."; hypervariable region of a human Kappa-immunoglobulin light chain."; hypervariable region of a human Kappa-immunoglobulin light chain.";
                                                                                                                                                                                                                                                                                                      23 DIOMTOSPSSLSASVGDRVTITCSATSSI-TYMSWYQQKPGKAPKLLIYDTSNLASGVPS 81
                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens (Human).
Homo sapiens (Human).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Homo.
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                                   66.0%; Score 432.5; DB 1; Length 108; 80.4%; Pred. No. 5.7e-35; Live 9; Mismatches 11; Indels 1;
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                            COMPLEMENTARITY - DETERMINING 1.
                                                                                             COMPLEMENTARITY - DETERMINING 3.
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                                                                                                                                                                                                                                                                                                                                                          82 RESGSSGSGTDYTLTISSLOPEDFATYYCOOWSSYPLTFGGGTKVEIK 128
                                                                                                                                                                                                                                                                                                                                                                             COMPLEMENTARITY-DETERMINING
                                                                                                                                                                     11671 MW; 08D3A6160D8D0618 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
21-JUL-1999 (Rel. 38, Last annotation update)
1G KAPPA CHAIN V-I REGION MEV.
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V region; Bence-Jones protein.
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Best Local Similarity 80.4'
Matches 86; Conservative
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Best Local Similarity
                                                                                                                                                                                    108 AA;
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WEDLINE=85014148; PubMed-6091049; Richeck H.G., Combriato G., Zachau H.G.; Istobeck H.G., Combriato G., Zachau H.G.; Immunoglobulin genes of the kappa light chain type from two human Nucleic Acids Res. 12:6995-7006(1984).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             58 QQKPGKAPKLLIYDTSNLASGVPSRFSGSGSGTDYTLTISSLOPEDFATYYCQQWSSYPL 117
                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutherla; Primates; Catarrhini; Hominidae; Homo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IG KAPPA CHAIN V-I REGION DAUDI.
                           82 RFSGSGSGTDYTLTISSLOPEDFATYYCQQWSSYP-LTFGGGTKVEIK 128
                                       65.7%; Score 430.5; DB 1; Length 129; 69.5%; Pred. No. 1.1e-34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPLEMENTARITY-DETERMINING 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPLEMENTARITY-DETERMINING 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPLEMENTARITY-DETERMINING 3.
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                                                                                                            13-AUG-1987 (Rel. 05, Created)
13-AUG-1987 (Rel. 05, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
IG KAPPA CHAIN V-I REGION DAUDI PRECURSOR.
                                                                                                      129 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; Pred. No. 1.1e-34;
12; Mismatches 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BY SIMILARITY.
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PIR; A01884; K1HUDI.
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InterPro; IPR003006, Ig_WHC.
InterPro; IPR003596; Ig_V.
                                                                                               STANDARD;
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129
129 AA;
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91;
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SEQUENCE
                                                                                  KV1X_HUMAN
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119 TFGGGTKVDNK 129

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HOPPE-Seyler's Z. Physiol. Chem. 361:1591-1598(1980).
-!- MISCELLANEOUS: THE C REGION OF THIS CHAIN HAS THE INV (3) MARKER.
-!- MISCELLANEOUS: THIS IS A BENCE-JONES PROTEIN.
                                                                                                                                                                                              Kratzin H., Yang C., Krusche J.U., Hilschmann N.;
"Preparative separation of the tryptic hydrolysate of a protein by monoclonal L-chain of k-type, subgroup I (Bence-Jones Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1; Gaps
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23 DIQMTQSPSSLSASVGBRVTITCSATSSIT-YMSWYQQRPGKAPKLLIYDTSNLASGVPS 81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            65.3%; Score 427.5; DB 1; Length 108; 77.6%; Pred. No. 1.7e-34; tive 12; Mismatches 11; Indels 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     782B14A649A60E45 CRC64;
                                        21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
IG KAPPA CHAIN V-I REGION WES.
                                                                                                                                                                                                                                                                                                              13-AUG-1987 (Rel. 05, Created)
13-AUG-1987 (Rel. 05, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
IG KAPPA CHAIN V-I REGION WALKER PRECURSOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BY SIMILARITY.
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Klobeck H.G., Combriato G., Zachau H.G.;
                                                                                                                                                                                  MEDLINE=81092279; PubMed=6778806;
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                     STANDARD;
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                                                                                                 Homo sapiens (Human)
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                  KV1S_HUMAN
P01611:
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                                                                                                                                                                       SEQUENCE.
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P04431;
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SEQUENCE
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KV1S_HUMAN
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pfam; PF00047; 19; 1.
SMART; SM00406; IGV; 1.
Immunoglobulin V region.
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SEQUENCE
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                                                                                                                                                                                       InterPro;
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                                                                               This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its muse by non-profit institutions as long as its content is in no way entitied and this statement is not removed. Usage by and for commercial entities requires a license agreement (see http://www.isb-sib.ch/announce/or send an email to license@lsb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE-71064023; PubMed-5489770; MEDLINE-71064023; PubMed-5489770; Gottlieb P.D., Cunningham B.A., Rutishauser U., Edelman G.M.; Gottlieb P.D., Cunningham B.A., Rutishauser U., Edelman G.M.; The squalent structure of a human gamma G-immunoglobulin. VI. Amino acid sequence of the light chain."; Biochemistry 9:3155-3161(1970).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       58 QOKPGKAPKILIYDTSNLASGYPSRFSGSGSGTDYTLTISSLQPEDFATYXCQQWSSYPL 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5; Gaps
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      "Immunoglobulin genes of the kappa light chain type from two human lymphoid cell lines are closely related."; Nucleic Acids Res. 12:6995-7006(1984).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1; Length 129;
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70.2%; Pred. No. 2.1e-34;
tive 13; Mismatches 21; Indels
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21-JUL-1986 (Rel. 01, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
IG KAPPA CHAIN V-I REGION EU.
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MEDLINE=71064027; PubMed=4923144;
                                                                                                                                                                                                                                                                                EMBL; X00965; CAA25477.1; ALT_TERM.
                                                                                                                                                                                                                                                                                                                                                                                    Premi PF00047; 19; 1. SMART; SM00406; IGv; 1. Immunoglobulin V region; Signal.
                                                                                                                                                                                                                                                                                                                                      HSSP; P01607; IREI.
InterPro; IPR003006; Ig_MHC.
InterPro; IPR003596; Ig_V.
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129
129 AA;
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P01598;
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Best Local Sim
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SEQUENCE
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Specifications: 0. 5:677-684(1976).
Scand. J. Immunol. 5:677-684(1976).
Formula of the specific specif
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Capra J.D., Klapper D.G.; "Complete amino acid sequence of the variable domains of two human igm anti-gamma globulins (Lay/Pom) with shared idiotypic specificities.";
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Gall W.E., Edelman G.M.; a human gamma G-immunoglobulin. X. "The covalent structure of a human gamma G-immunoglobulin. X. Intrachain disulfide bonds."; Biochamistry 9:3188-3196(1970).
Biochamistry 9:3188-3196(1970).
-i. MISCELLANEOUS: THE C REGION OF THIS CHAIN HAS THE INV (3) MARKER.
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Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi:
Mammalia: Eutheria; Primates: Catarrhini; Hominidae: Homo.
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COMPLEMENTARITY-DETERMINING 1.
FRAMEWORK 2.
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21-JUL-1986 (Rel. 01, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
IG KAPPA CHAIN V-I REGION LAY.
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                                                                                                                                                                                                                                                                                     pir, A01866; KIHUEU.
HSSP; P01607; 1REI.
Interpro; IPR003006; Ig_MHC.
Interpro; IPR003596; Ig_V.
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SMART; SM00406; IGV; 1.
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Matches 82; Conservative
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"The primary structure of a monoclonal IgM-immunoglobulin
(marcoglobulin Gal.), I. The amino acid sequence of the L-chain of
Appa-type, subgran, I.;
Hoppe-Seyler's Z. Physiol. Chem. 354:1503-1504(1973).

-I. MISCELLANEOUS: THE C.REGION OF THIS CHAIN HAS THE INV (3) MARKER.
                                                                                                                                                        23 DIOMIQSPSSLSASVGDRVIITCSAISSI-TYMSWYQQKPGKAPKLLIYDTSNLASGVPS 81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1; Gaps
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                               64.5%; Score 422.5; DB 1; Length 108; 74.8%; Pred. No. 5.2e-34;
      COMPLEMENTARITY - DETERMINING 2.
                            COMPLEMENTARITY-DETERMINING 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      64.4%; Score 421.5; DB 1; Length 108; 78.5%; Pred. No. 6.4e-34; Live 8; Mismatches 14; Indels 1.
  56 COMPLENENTARITY-DETERMINING

88 FRAMEWORK 3.

COMPLENENTARITY-DETERMINING

107 FRAMEWORK 4.

88 BY SIMILARITY.

108

11834 MW; 739993A95431434A CRC64;
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COMPLEMENTARITY-DETERMINING 1.
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                                                                                                                                                                                                                      61 RFSGSGSGTDFTFTISSLQPEDIATYYCQQYNNWPPTFGGGTKVEVK 107
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21-JUL-1986 (Rel. 01, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
IG KAPPA CHAIN V-I REGION GAL.
                                                                                                                                                                                                                                                                                                   PRT; 108 AA.
                                                                                                                                        12; Mismatches
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InterPro; IPR003596; Ig_V.
                                                                                                                                 80; Conservative
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SMART, SM00406; IGv, 1.
Immunoglobulin V region.
DOMAIN
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Best Local Similarity
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PIR; A01867; K1HUGL.
HSSP; P01607; 1REI.
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GONI F., Frangione B.

"Amino acid sequence of the FV region of a human monoclonal IgM galactose in Klebsiella polysaccharides K30 and K33.",

Proc. Natl. Acad. Sci. U.S.A. 80.4837-484 (1983).

"ALIDENSTROM'S APPROYZLATED GALACTOSE AND ISOLATED FROM A MONOCLONAL ANTIBODY WALDENSTROM'S APPROYZLATED GALACTOSE AND ISOLATED FROM A PATIENT WITH PIR; A01870; KHUWNE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            64.4%; Score 421.5; DB 1; Length 108; 76.6%; Pred. No. 6.4e.34; Live 11; Mismatches 13; Indels 1;
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82 RFSGSGSGTDYTLIISSLQPEDFATYYCQQWSSYPLIFGGGTKVEIK 128
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11840 MW; 9249B61F0945618C CRC64;
                                                                                            21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
IG KAPPA CHAIN V-I REGION WEA.
                                                                                                                                                                                                                                                                                                                                                                                                         Monoclonal antibody.
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Interpro; IPR003596; Ig_V.
Pfam; PF00047; Ig'l
SMART; SM00406; IGV, 1
Immunoglobulin V region; Mono
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56
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                                                                                                                                             Homo sapiens (Human).
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hes 82; Conserva
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108 AA;
                                                                         KV1R_HUMAN
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SEQUENCE
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